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(54) Texturing systems for use in three-dimensional imaging systems

(57) A method and apparatus are provided for generating textured data for use in texturing an image. Texture data is first represented by arbitrary compressed codes in which selected compressed code values define principal colors and other compressed code values define colors which can be formed by selected weighted averages of principal colors, the corresponding current

values also being weighted averages of the code values of the selected principal colors. An output texel is interpolated full of variety of input texels with the interpolating step being effecting using compressed code values. These code values are subsequently decompressed to give the actual color values.

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EUROPEAN SEARCH REPORT

Application Number
EP 02 07 8562

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (InCL7)
A	EP 0 810 553 A (SEIKO EPSON CORP) 3 December 1997 (1997-12-03) * the whole document *		G06T15/20
A	WO 97/41534 A (3DFX INTERACTIVE INC) 6 November 1997 (1997-11-06) * the whole document *		
A	US 5 651 104 A (COSMAN MICHAEL A) 22 July 1997 (1997-07-22) * the whole document *		
			TECHNICAL FIELDS SEARCHED (InCL7)
			G06T
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 10 March 2004	Examiner Vollmann, K
CATEGORY OF CITED DOCUMENTS		T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date O: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding document X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 07 8562

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0810553 A	03-12-1997	US 5886705 A	23-03-1999
		DE 69724512 D1	09-10-2003
		EP 0810553 A2	03-12-1997
		JP 10105723 A	24-04-1998
WO 9741534 A	06-11-1997	US 5831624 A	03-11-1998
		AU 2732797 A	19-11-1997
		WO 9741534 A1	06-11-1997
US 5651104 A	22-07-1997	NONE	

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